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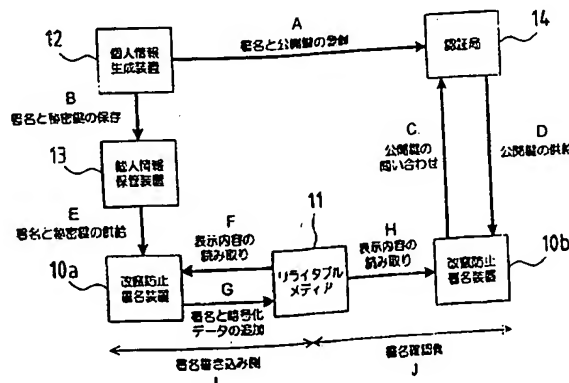
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— 国際調査報告書

2文字コード及び他の略語については、定期発行される
各PCTガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

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(54) Title: FALSE ALTERATION PREVENTION SIGNATURE METHOD

(54) 発明の名称: 改竄防止署名方法



(57) Abstract: A false alteration prevention signature device comprises a feature extraction unit (33) that extracts a feature value representing the feature of image data according to an instruction from an authenticator who has authenticated display data; an encryption/decryption unit (35) that encrypts the feature value using an encryption key a paired with an identifier to generate encrypted data, and decrypts the encrypted data into the feature value; a medium writing unit (34) that adds the identifier and the encrypted data to a re-writable medium; and a controller (37) that checks if the decrypted feature value matches the feature value extracted from image data generated by reading display data.

(57) 要約: 本改竄防止署名装置は、表示データを認証した認証者の指示により、画像データの特徴を表す特徴量を抽出する特徴抽出部33と、識別子と対になった暗号鍵を用いて特徴量を暗号化することにより暗号化データを生成し、かつ、暗号化データの特徴量に復号化する暗号化・復号化部35と、識別子と暗号化データとをリライタブルメディアに付加するメディア書き込み部34と、復号化された特徴量と表示データを読み込んで生成した画像データから抽出した特徴量との一致を判定するコントローラ37とを備えている。

- 12...PERSONAL INFORMATION GENERATION DEVICE
- A...REGISTER SIGNATURE AND PUBLIC KEY
- 14...AUTHENTICATION AUTHORITY
- B...SAVE SIGNATURE AND PRIVATE KEY
- 13...PERSONAL INFORMATION STORAGE DEVICE
- C...MAKE INQUIRY ABOUT PUBLIC KEY
- D...SUPPLY PUBLIC KEY
- E...SUPPLY SIGNATURE AND PRIVATE KEY
- 10a...FALSE ALTERATION PREVENTION SIGNATURE DEVICE
- F...READ DISPLAY CONTENTS
- G...ADD SIGNATURE AND ENCRYPTED DATA
- 11...RE-WRITABLE MEDIUM
- H...READ DISPLAY CONTENTS
- 10b...FALSE ALTERATION PREVENTION SIGNATURE DEVICE
- I...SIGNATURE WRITING SIDE
- J...SIGNATURE CONFIRMATION SIDE

WO 2004/008684 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08631

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ H04L9/32, G09C1/00, G06T7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-251295 A (Nippon Telegraph And Telephone Corp.), 14 September, 2001 (14.09.01), Full text; Figs. 1 to 12 (Family: none)	1-6
Y	JP 7-36383 A (Pitney Bowes Inc.), 07 February, 1995 (07.02.95), Full text; Figs. 1, 2 & DE 69332686 D & EP 599558 A & CA 2109553 A & US 5864622 A & US 6354494 B	1-6
Y	JP 2002-40936 A (NTT Advanced Technology Corp.), 08 February, 2002 (08.02.02), Full text; Figs. 1 to 5 (Family: none)	1-6

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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